

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2001129775 A**

(43) Date of publication of application: **15.05.01**

(51) Int. Cl.

**B25J 5/00**  
**B25J 19/00**

(21) Application number: **11311813**

(22) Date of filing: **02.11.99**

(71) Applicant: **SONY CORP YAMAGUCHI  
JINICHI**

(72) Inventor: **HATTORI YUICHI  
SAIJO HIROKI  
KUROKI YOSHIHIRO  
ISHIDA KENZO  
YAMAGUCHI JINICHI**

(54) **ROBOT AND GRAVITY CENTER POSITION  
CONTROL METHOD FOR ROBOT**

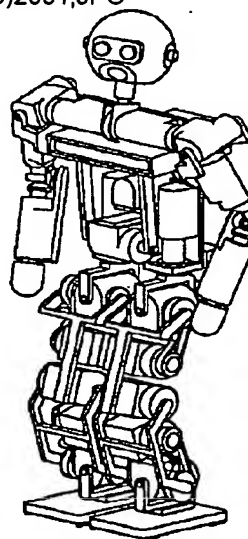
direction, the gravity center position adjustable to various exercise patterns can be set.

(57) Abstract:

COPYRIGHT: (C)2001,JPO

PROBLEM TO BE SOLVED: To set a gravity center position suitable for cooperative exercise of the whole body of a robot.

SOLUTION: This human type robot generally comprises lower limbs for executing leg type movement, and an upper body disposed above the lower limbs. The upper body is classified into a truck connected with the lower limbs through a hip joint, upper limbs and a head. As a driving battery for driving at least one part of the robot, a relatively heavy battery pack comprising nickel type battery cells capable of supplying inrush current of actuators is used. By installing the battery pack to the upper body, the gravity center position of the whole robot is shifted upward to regard the whole robot as an inverted pendulum, so that a dynamic walking control of the robot is easily performed. By installing the battery pack movably in the Z-axis



人間型ロボット100  
(Z軸)